

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1312061

Luminaire Tested: P3SQAS05R159727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

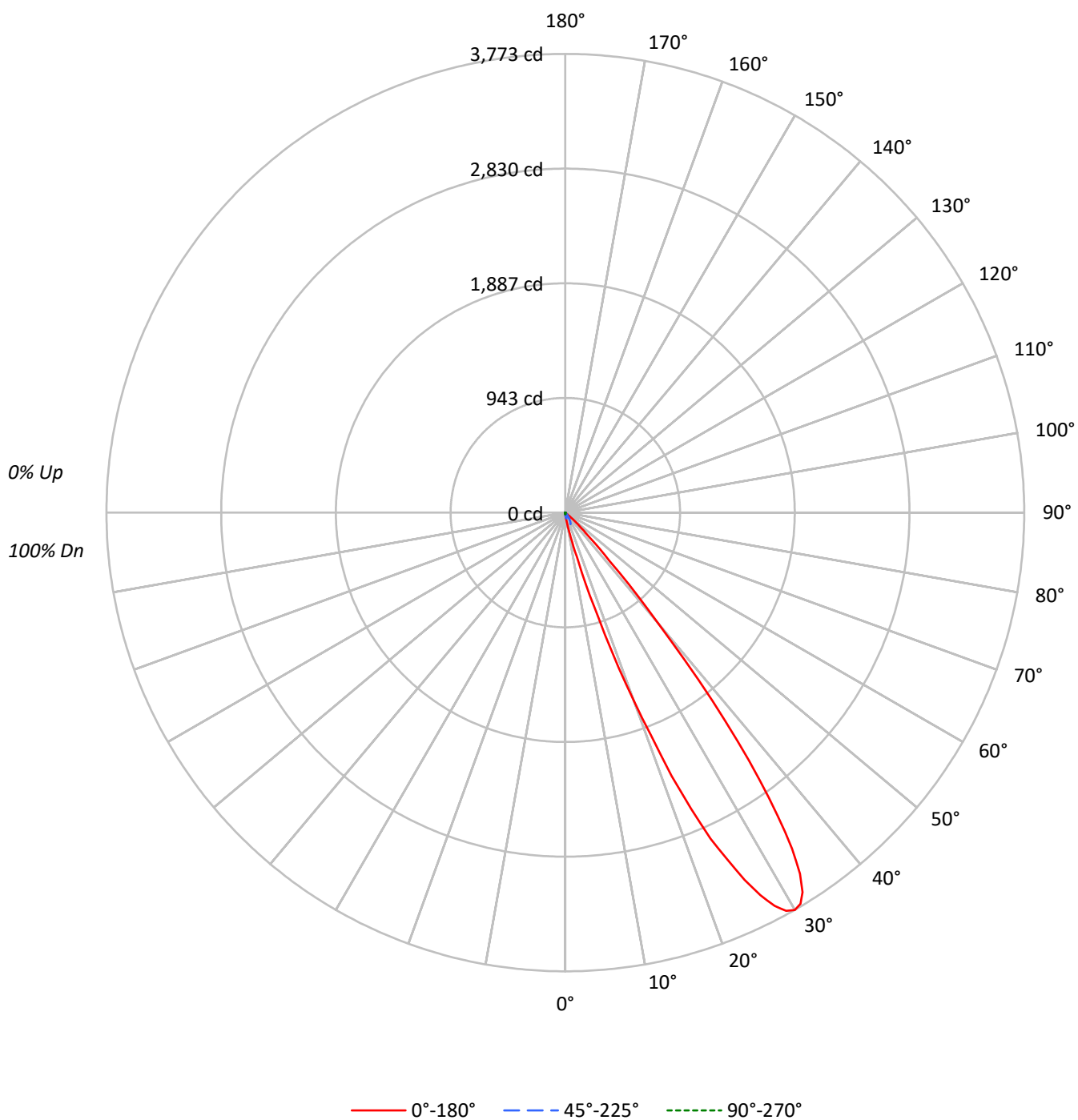
Lumens per Lamp: N/A
Luminaire Lumens: 399.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2463	2463	2463	2463	2463
5°	7105	5359	2109	864	588
10°	18485	7992	1399	0	0
15°	73905	13087	749	0	0
20°	301983	19299	238	0	0
25°	596931	19136	0	0	0
30°	750280	15094	0	0	0
35°	640154	9272	0	0	0
40°	263557	2923	0	0	0
45°	57017	1218	0	0	0
50°	7315	0	0	0	0
55°	631	0	120	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	201	655	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 59672 cd/sqm

TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	28.0	7.0
20°-30°	163.0	40.8
30°-40°	174.8	43.8
40°-50°	29.5	7.4
50°-60°	0.9	0.2
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	192.9	48.3
0°-40°	367.6	92.1
0°-60°	398.0	99.8
0°-90°	399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	399.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	41	31	12	5	3	6
15°	414	73	4	0	0	192
25°	3141	101	0	0	0	1421
35°	3045	44	0	0	0	1750
45°	234	5	0	0	0	277
55°	2	0	0	0	0	5
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	26.0	26.4	26.9	26.9	26.9	26.9	26.4	26.4	26.4	26.4	26.0
5°	41.1	41.1	41.1	41.1	41.1	41.1	40.7	40.7	40.7	40.7	40.7
7.5°	58.7	57.9	58.3	57.1	57.9	57.5	57.1	57.9	57.9	55.8	55.8
10°	105.7	105.3	101.1	102.0	102.8	102.4	102.4	99.9	99.4	97.8	96.1
12.5°	203.9	208.5	211.9	211.9	203.9	206.8	201.4	202.7	203.5	201.0	192.2
15°	414.5	422.1	414.1	421.7	418.7	407.8	395.7	379.3	385.6	374.3	370.5
17.5°	907.9	925.2	918.0	883.2	894.5	867.7	850.9	844.6	827.0	774.5	752.7
20°	1647.7	1668.6	1648.9	1608.2	1621.2	1570.5	1557.4	1545.3	1467.2	1438.7	1347.2
21°	1959.0	1976.2	1983.7	1941.4	1915.3	1875.1	1841.5	1830.6	1783.2	1728.2	1634.2
22°	2334.9	2314.8	2269.5	2275.3	2236.7	2203.6	2157.0	2113.0	2060.1	1983.3	1905.7
23°	2646.2	2622.7	2601.3	2575.3	2533.8	2510.3	2443.6	2395.3	2326.5	2244.3	2169.6
24°	2936.2	2900.1	2886.6	2840.5	2828.7	2775.9	2721.8	2658.8	2575.7	2488.1	2405.4
25°	3141.3	3146.8	3135.0	3129.6	3069.6	3015.5	2961.7	2864.8	2793.9	2716.3	2589.2
26°	3361.2	3363.7	3357.8	3317.5	3263.4	3210.6	3141.3	3057.0	2954.2	2868.2	2753.2
27°	3529.4	3519.4	3511.0	3463.1	3418.7	3351.9	3289.0	3189.2	3088.9	2986.5	2853.1
28°	3663.7	3644.8	3634.3	3593.2	3541.2	3459.4	3382.2	3289.0	3188.7	3078.8	2934.5
29°	3744.7	3724.5	3712.8	3667.5	3607.5	3535.7	3457.7	3355.3	3247.5	3125.0	2979.8
30°	3772.8	3761.0	3742.6	3695.6	3633.5	3558.8	3478.7	3367.5	3254.6	3129.2	2975.6
31°	3754.3	3739.2	3721.6	3670.8	3603.7	3532.4	3439.2	3322.6	3203.8	3084.3	2921.5
32°	3680.9	3671.7	3650.3	3582.3	3527.7	3435.4	3343.6	3234.5	3104.8	2976.4	2829.2
33°	3543.3	3528.2	3509.7	3447.6	3378.0	3289.4	3198.0	3086.4	2957.5	2822.0	2660.1
34°	3333.5	3314.2	3291.1	3249.6	3160.6	3083.8	2978.1	2847.6	2741.1	2611.0	2464.6
35°	3044.8	3016.7	2989.0	2957.5	2857.7	2786.8	2715.5	2601.8	2499.0	2376.4	2210.7
36°	2720.9	2710.0	2687.3	2604.3	2572.0	2475.5	2418.0	2287.5	2204.4	2084.4	1947.6
37°	2354.6	2290.4	2323.2	2276.6	2179.2	2149.0	2080.6	1968.6	1878.8	1752.1	1653.1
38°	1961.9	1920.0	1943.0	1896.0	1845.3	1775.6	1723.6	1641.8	1541.1	1441.6	1347.7
39°	1554.9	1520.9	1546.1	1514.2	1437.0	1408.1	1361.9	1299.4	1218.4	1140.8	1051.9
40°	1172.3	1128.6	1162.2	1116.9	1081.7	1034.2	1010.7	953.3	902.9	856.3	799.7
42.5°	535.4	530.8	523.2	506.8	503.1	503.5	474.5	455.7	430.1	400.3	382.2
45°	234.1	240.0	245.0	235.8	235.4	230.3	228.7	216.1	211.0	201.4	189.6
47.5°	115.4	117.5	116.2	118.7	116.6	113.3	112.4	110.8	105.7	105.3	99.9
50°	27.3	26.9	26.9	27.3	26.9	26.9	26.4	25.6	25.2	25.6	24.3
52.5°	8.8	9.2	8.8	8.4	8.8	9.2	8.8	8.8	8.8	8.8	8.8
55°	2.1	2.1	2.1	2.1	2.1	2.1	1.7	1.7	2.1	2.1	2.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	25.6	21.8	18.0	14.3	10.5	8.4	8.0	7.6
5°	38.6	31.0	20.6	12.2	7.1	5.0	3.8	3.4
7.5°	52.0	38.6	22.7	10.1	5.0	2.1	0.8	0.4
10°	74.7	45.7	23.5	8.0	2.5	0.0	0.0	0.0
12.5°	146.4	52.4	23.1	6.3	0.4	0.0	0.0	0.0
15°	243.4	73.4	21.4	4.2	0.0	0.0	0.0	0.0
17.5°	398.6	94.8	18.5	2.9	0.0	0.0	0.0	0.0
20°	618.0	105.3	14.3	1.3	0.0	0.0	0.0	0.0
21°	724.6	106.2	12.6	0.8	0.0	0.0	0.0	0.0
22°	816.9	106.2	10.9	0.4	0.0	0.0	0.0	0.0
23°	902.5	104.9	9.7	0.0	0.0	0.0	0.0	0.0
24°	973.0	103.2	8.8	0.0	0.0	0.0	0.0	0.0
25°	1025.8	100.7	8.0	0.0	0.0	0.0	0.0	0.0
26°	1050.2	97.3	6.7	0.0	0.0	0.0	0.0	0.0
27°	1062.4	92.7	5.9	0.0	0.0	0.0	0.0	0.0
28°	1054.0	87.7	5.0	0.0	0.0	0.0	0.0	0.0
29°	1033.0	82.2	3.8	0.0	0.0	0.0	0.0	0.0
30°	1005.7	75.9	2.9	0.0	0.0	0.0	0.0	0.0
31°	965.9	69.6	2.1	0.0	0.0	0.0	0.0	0.0
32°	911.3	63.4	1.7	0.0	0.0	0.0	0.0	0.0
33°	838.3	56.6	0.8	0.0	0.0	0.0	0.0	0.0
34°	748.1	49.9	0.4	0.0	0.0	0.0	0.0	0.0
35°	647.0	44.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	560.1	37.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	472.9	30.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	396.1	23.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	327.7	19.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	271.5	13.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	150.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	91.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	52.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.8	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.8	1.3	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0



TEST NUMBER: P1312061

CATALOG NUMBER: P3SQAS05R159727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)